

ARCS PROCEDURE:	GNDRAD DATALOGGER REPLACEMENT PROCEDURE	PRO(DAQG)-002.001
Author: J. Zirzow		June 17, 1999 Page 1 of 4

## **GNDRAD Datalogger Replacement Procedure**

### **I. Purpose:**

This document describes the replacement procedures for a GNDRAD datalogger.

### **II. Cautions and Hazards:**

None.

### **III. Requirements:**

- A RAD data logger
- Calibration report for each sensor
- Notebook PC with RS232/EIA422/Impulse adapter cable
- Checkout equipment (as specified by Sensor mentors)

### **IV. Procedure:**

#### **A. Steps:**

1. If the ZENO in the data logger to be replaced is still functioning, upload the Configuration to the notebook computer.
2. Using a text editor, change sensor calibration coefficients in the GNDRAD configuration file for the replacement data logger as necessary. The naming convention for the configuration file is GNDsssn.txt where sss is the three digit serial number of the data logger and n is an alphabetic version number, e.g. GND301a.txt is the first GNDRAD configuration version for data logger serial number 301. If any changes are made, save the new configuration file incrementing the version number by 1, e.g. the second version of GNDRAD configuration for data logger serial number 301 is GND301b.txt.
3. Disconnect cables and the ground lead from the old data logger.
4. Connect the ground lead to the replacement data logger case. This must be done before continuing with the procedure.
5. Connect power to the replacement data logger.

### **V. References:**

ARCS PROCEDURE:	GNDRAD DATALOGGER REPLACEMENT PROCEDURE	PRO(DAQG)-002.001
Author: J. Zirzow		June 17, 1999 Page 2 of 4

1. Hart, Dick

## **VI. Attachments:**

1. Sensor/Instrument Table
2. ARCS Instrument Replacement and Configuration Change Form Spreadsheet

Attachment 1

ARCS PROCEDURE:	GNDRAD DATALOGGER REPLACEMENT PROCEDURE	PRO(DAQG)-002.001
Author: J. Zirzow		June 17, 1999 Page 3 of 4

Sensor or Instrument	Designation	Sensor Menu No.	Connector No.
Upwelling Pyrgeometer	PIRDN	1	6
Upwelling Pyranometer	PSPDN	2	5
Upwelling IRT	IRT-DN	3	3
Daytime Net Radiation	NET+	6	9
Nighttime Net Radiation	NET-	7	9

ARCS PROCEDURE:  Author: J. Zirzow	GNDRAD DATALOGGER REPLACEMENT PROCEDURE	PRO(DAQG)-002.001  June 17, 1999 Page 4 of 4
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